	MATERIAL, SERVICE, OR OPERATION (Includes installation and profit) 1/	UNITS	PIPE DIAMETER - IN. 1	1¼	1½	2	4	6	8	10	12	14	15	16	18	21	24	30	36	42
1.	**Underground Outlets 2/**	Lin. Ft. 3/					$4	$4	$6	$8	$10	N/A	$16	N/A	$24	N/A	$33			
2.	**Underground Outlets (WMS Inlet) 4/**	Lin. Ft.					$5	$6	$8	$13	$16	N/A	$24	N/A	$33	$42	$52			
3.	**Canopy Inlet Spillway - Plastic 5/**	Lin. Ft. 3/						$13	$17	$24	$29	$38	$41	$44	$51					
4.	**Canopy Inlet Spillway - CMP 6/**	Lin. Ft. 3/						$18	$22	$26	$29	N/A	$33	N/A	$38	$55	$63			
5.	**Drop Inlet Spillway - CMP 7/**	Lin. Ft. 3/							$25	$30	$35	N/A	$39	N/A	$46	$65	$76	$92	$130	$161
6.	**Inlet Water Level Control Structure 8/**	Each 9/							$1,200	$1,400	$1,800									
7.	**Water Supply Line Under Dam 10/**	Each 9/			$500	$600	$1,100													
8.	**Siphon Supply Line Over Dam 11/**	Each 9/		$700	$700	$800														
9.	**Domestic and livestock supply 12/**	Lin. Ft.	$0.90	$1.20	$1.20	$1.20														
10.	**Irrigation water conveyance 13/**																			
	A. Low pressure plastic pipeline (50 psi)	Lin. Ft. 14/						$3.41	$4.09	$4.73	$4.99									
	B. High pressure plastic pipeline (80 psi)	Lin. Ft. 14/						$3.41	$4.09	$4.73	$4.99	$5.71	$6.19							

1/ Developed from State Average Cost Data for Practice Components in eFOTG Section I
2/ Complete with riser and tee or canopy, main conduit, manually tamped backfill under the ridge, and CMP outlet with rodent guard or bubble-up riser
3/ Measurement is the length of the main conduit or barrel respectively
4/ Complete with riser and tee or open inlet with bar guard (wood picket dam included around 15" to 24" inlet), main conduit, manually tamped backfill under the ridge, and local berm or pipe support. Does not include concrete or rock at inlet or outlet and is not for costs for slotted flume.
Refer to "State Average Cost Data for Practice Components" for slotted flumes, wood picket dams, concrete, and steel unit costs, etc.
5/ Complete with trash rack, canopy inlet, plastic PVC barrel, anti-seep collars, pipe support, and manually tamped backfill of the barrel
6/ Complete with trash rack, canopy inlet, CMP barrel, connecting bands, anti-seep collars, pipe support, and manually tamped backfill of the barrel
7/ Complete with trash rack, riser (base and 4' barrel), CMP barrel, connecting bands, anti-seep collars, pipe support, and manually tamped backfill of both the riser and barrel
8/ Complete with inline water control structure, inlet and outlet pipe, manually tamped backfill of structure and pipe, bar guard, rodent guard, and back flap (if needed)
9/ Measurement is each complete installation
10 Complete with intake, valves, operating rod, valve box and lid, anti-seep collars, testing, and manually tamped backfill
11/ Complete with intake, valves, valve box and lid, filler pipe assembly, excavation, testing, and manually tamped backfill
12/ Complete with valves and hydrants, excavation, testing, and backfill
13/ Complete with valves and risers, dogleg (z-pipe), excavation, testing, and backfill (pump stand and flow meter not included in the cost)
14/ Measurement is the length of the plastic pipe and horizontal distance of dogleg along the ground surface

	MATERIAL, SERVICE, OR OPERATION (Includes installation and profit)	UNITS	UNIT COST
11.	**CENTER PIVOT IRRIGATION 1/**		
	A. Conversion from surface irrigation to low pressure center pivot 2/	Lin. Ft.	$30
	B. Conversion from high pressure to low pressure nozzles 3/	Each	$24.75
12.	**SUBSURFACE DRIP IRRIGATION (SDI) 1/ 4/**	Acre	$900

1/ The cost of the main line or supply line is not included - see "Irrigation water conveyance", Item 9, if a main line is needed
2/ Includes the complete center pivot installation with drops, pressure regulators, and nozzles using center pivot length
3/ Includes drops, pressure regulators, and nozzles
4/ Includes the complete SDI installation (filter system, manifold, laterals, and flush lines)

	CONSERVATION PRACTICE NAME	UNITS	UNIT COST
13.	**Critical Area Planting 1/**	Acre	$109
14.	**Range Planting 2/**	Acre	$60
15.	**Pond Sealing or Lining**		
	A. Natural clay 3/	Sq. Ft. 4/	$0.25
	B. Bentonite 5/	Sq. Ft. 4/	$0.60
	C. Soda ash 5/	Sq. Ft. 4/	$0.35
	D. Flexible membrane		
	Covered GCL 6/	Sq. Ft. 4/	$0.85
	Covered EPDM 7/	Sq. Ft. 4/	$0.85
	Other flexible membrane 8/		

1/ Native mix (at least 4 species) - includes seed and drilling costs
2/ Includes seed and drilling costs
3/ Includes excavation of soil for liner and cover, water, liner placement with compaction, placement of soil cover.
4/ Measurement is the square feet of surface area of the bottom and side slopes.
5/ Includes excavation of soil for liner and cover, amendment materials, mixing, water, liner placement with compaction, placement of soil cover.
6/ Includes excavation of soil for liner and cover, geosynthetic clay liner (GCL), subgrade preparation, liner placement, placement of soil cover.
7/ Includes excavation of soil for liner and cover, ethylene propylene diene terpolymer (EPDM) synthetic rubber, geotextile for side slopes, subgrade preparation, liner placement, placement of soil cover.
8/ To be estimated by the engineer for the specific job